



UNIMORE

UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

SOUND ENGINEERING UNIVERSITY COURSE

EIGHTH COURSE
FEBRUARY-MAY 2019



IN COOPERATION WITH



RCF SPA
REGGIO EMILIA
ITALY





SOUND ENGINEERING – UNIVERSITY COURSE

The course is organized by the Department of Science and Methods for Engineering of the University of Modena and Reggio Emilia, in cooperation with **RCF SpA**, a leading international manufacturer of professional sound products and systems.

The primary goal is to provide engineers with a specific knowledge of the **state-of-the-art technologies related to sound, transducers and speaker systems and their applications in the professional market**. The course is organized in modules, taking the participants through a learning process from the **basis of electro-acoustics components like transducers, amplifiers and digital processors till the design of a complete audio project based on a real case study**. An international reference project carried out by RCF engineers will be used as a studying guideline to be followed during the course.

The learning topics are grouped into four modules as follows:

- 1) Environmental Acoustics in open air and inner spaces including design and simulation methods.
- 2) Transducers and speaker systems including clusters, arrays and point source configurations.
- 3) Electronics including circuit analysis, filters, amplifiers and DSP.
- 4) Sound systems design including practical experiences in measurements, listening tests and tuning.

The technical contents provided in this University course will be completed by the direct experience of RCF laboratories, since 1949 involved in the design, manufacturing and market applications of professional products and systems for theatres, concerts, auditoriums, airports, cruise ships, shopping malls, cinemas, stadia.

Organization:

- Department of Science and Methods for Engineering University of Modena and Reggio Emilia, Italy, www.dismi.unimore.it
- RCF SpA, via Raffaello 13, Reggio Emilia, Italy, www.rcf.it

Course director:

Prof. Emilio Lorenzani, Department of Science and Methods for Engineering, University of Modena and Reggio Emilia.

Date, time and location:

Starting date: February 28th, 2019.

The course will be in **e-learning mode** and will require one week presence, from Monday May 20th through Friday May 24th, at RCF Audio Academy in Reggio Emilia, Italy.

Completion date with examination: Friday May 24th, 2019.

Preferred hotels:

- Hotel Mercure Astoria, 4 stars. Via Nobili 2, Reggio Emilia. <http://www.mercurehotelastoria.com>
- Hotel Cristallo, 4 stars. Via Regina Margherita 30, Reggio Emilia. <http://www.hotelcristallo.re.it/>
- Hotel RE Emilia, 4 stars. Via Danubio 7, Reggio Emilia. <http://www.fabbrihotels.com/>
- Hotel Holiday Inn Express, 3 stars. Via M. Ruini 7, Reggio Emilia. <http://www.inchotels.com>

**Contents:**

The course is comprised of four modules: Environmental acoustics, Transducers and speaker systems, Electronics, Sound systems design. The week spent at RCF Audio Academy will include practical activities. The complete program is available on www.soundengineering.unimore.it.

Language:

The course will be held in English.

Requirements:

Degree or High-School Diploma with experience in the sector, good English knowledge.

Number of participants:

Max. 40 people, selected by the Course committee on the basis of CV and information provided.

Costs:

Participation fee will be covered by sponsorship of RCF SpA.

Enrolment fee to Unimore: 750,00 Euro (including application taxes).

Special conditions for lodging expenses in Reggio Emilia will be available to the participants for the period required.

Candidates' applications:

The Deadline for submission of applications is on February the 7th, 2019 at 13.00 p.m

At the end of the selection process, the Commission will draw up the list of qualified candidates, based on the total score awarded to each candidate.

Within a maximum of ten days, **candidates admitted according to the list of qualifying students shall enroll in the Master**. The submission of applications and final enrollments have to be done using University website: <http://www.esse3.unimore.it>. For any assistance send an email to soundengineering@unimore.it.

Recognition of ECTS:

Students and professionals gain 15 learning credits (called "CFU" in Italy and "ECTS" in Europe) for the Sound Engineering university course.

FOREIGN STUDENTS: The course can be recognized in their home universities with a 1 CFU = 1 ECTS proportion.

PROFESSIONALS: Each participant should contact his or her association of professional engineers for the recognition of learning credits in the framework of continuing professional development (CPD).

Contacts:

For more information and assistance please contact:

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<http://www.soundengineering.unimore.it/>

E-learning centre

E-mail: cea@unimore.it

Phone. +39 0522 522521 - Fax +39 0522 522512



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RCF Audio Academy

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